

BIOLOGICAL SAFETY CABINET CLASS II TYPE B2

- Creating Safe Solutions for Life Science Laboratories
- Engineered for Simplicity and Efficiency
- Certified for Safety and Performance

Application areas:

Hospitals, universities, research centers, pharmaceutical companies and other biological / life science laboratories



CONTENTS:

- Introduction

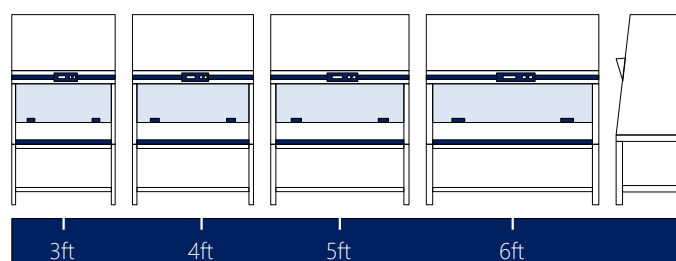


FEATURES:-

- ❖ Suitable for Hazardous Biological Applications.
- ❖ Confirms the Air cleanliness standard ISO 14644-5 (Class 100)
- ❖ Free Blower ensures noiseless operation.
- ❖ Designed for handling hazardous biological materials and chemical vapors.
- ❖ Sound level no more than 60 decibel $\pm$ 5%.
- ❖ Microprocessor controlled, Class II Bio Safety Cabinet (Type B2)
- ❖ All contaminated air paths remains in negative pressure.
- ❖ The exhaust plenum remains under negative pressure & hard ducted to the outside environment.
- ❖ Ergonomically angled supply filter to match cabinet profile for down flow uniformity.
- ❖ Smooth rounded corners for easy cleaning.
- ❖ Main Supply & Exhaust filter - Mini pleat HEPA filter with particle retention 99.99% for 0.3 micron particles.
- ❖ Robust construction outer body made of Electro galvanized steel duly powder coated.
- ❖ Working chamber is made of stainless steel 304.
- ❖ Single piece removable stainless steel 304 perforated working surface with spill-retaining design.
- ❖ Smooth finish interior and exterior ensures no risk of cuts to the user or maintenance personnel.
- ❖ Stand with lockable castor wheel for easy movement.
- ❖ The front vertical sliding sash made of transparent toughened glass (5-mm thickness) with smooth counter balanced drive.
- ❖ Intelligent Microprocessor PID Controller with Digital PV & SV Display, Blower & UV Control, LED Light Control, Pressure Monitoring, UV Timer, Filter Status Monitoring, Alarm Functions, and Optional Password Protection.
- ❖ Built in "PHILIPS / OSRAM" U.V. Germicidal light helps in killing of bacteria and other microorganism.
- ❖ Working area is illuminated by bright uniform shadow-free illumination Fluorescent LED light (1x40W).
- ❖ Duly dynamically balanced highly efficient centrifugal blower with 0.25 HP Electric Motor Mounted on anti vibration pad 1440rpm motor unit sized to generate adequate air flow volume over the Filter.
- ❖ Height of the working table provides comfortable "SIT DOWN" working position for the operator.
- ❖ Gas tap-one towards the back of the cabinet, Fumigation Port (Optional).
- ❖ Magnehelic gauge for pressure monitoring.
- ❖ 2 Nos-15/5A electrical outlets inside the work space.
- ❖ Supplied complete with cord & plug to work on 220-240VAC, 50Hz supply.

Microprocessor Based Automatic Controller:

- ❖ Intelligent Microprocessor PID Controller with Digital PV & SV Display, Blower & UV Control, LED Light Control, Pressure Monitoring, UV Timer, Filter Status Monitoring, Alarm Functions, and Optional Password Protection.
- ❖ **Features:-**
 - ❖ User friendly operation
 - ❖ Digital LCD display
 - ❖ Air velocity display (OPTIONAL)
 - ❖ Real time display
 - ❖ Soft touch panel switches for blower, Fluorescent light & UV light.
 - ❖ Interlocking of front sash for UV light
 - ❖ Built in UV timer helps in the decontamination by switching ON the UV tube for a certain time period (0-99 hrs).
- ❖ **Standard Accessories:** Pressure Gauge, User Manual, Test Certificate, with Optional Electrical Socket, Gas Tap, and In-built Fumigation Port (Optional).
- ❖ **Safety Features:** MCB Protection, Earthing Protection, Motor Overload Protection, UV Interlock, Audio-Visual Alarm, Low Airflow Alarm, High Filter Pressure Alarm, Front Sash Safety Monitoring, Electrical Leakage Protection



OCEAN LIFE SCIENCE CORPORATION

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CONTENTS:

- Product Overview (p.2)
- Design Features (p.3)



PERFORMANCE

The supply/exhaust HEPA filters provide 99.99% efficiency at 0.3 microns.

DESIGN

The OCEAN BIO is self-contained and does not require venting to the outside. Because filtered air is returned to the room, there is no increased load requirement for facility HVAC make-up air. This eliminates the cost of additional facility ductwork construction as well as HVAC maintenance and overhead.

RELIABILITY

An innovative surrounded air intake grille keeps all contaminated air contained within the cabinet and isolated thanks to a double-wall design and negative internal pressure.

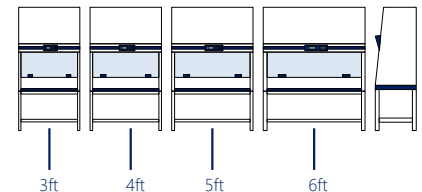
CONTROL

OCEAN BIO biological safety cabinet uses time-proven electronic controls instead of costly microprocessor controllers. Because all Class II, Type B2 cabinets must meet NSF standards for airflow, face velocity and other performance attributes, eliminating superfluous control and indicating devices simplifies operation and user interface while essential functions are maintained. As a result, the OCEAN BIO Series offers a cost-effective, efficient and compliant solution to biological safety cabinet applications in life science and associated uses.

SELECTION

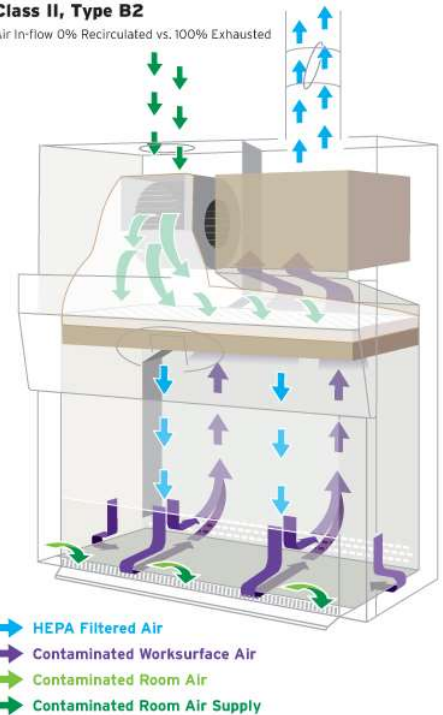
OCEAN BIO biological safety cabinets are available in 4 standard sizes.

The slim profile hood design is the thinnest on the market and allows multiple laboratory configurations. Units are portable and may be moved from one location to the next with minimal downtime and without filter changes. Set-up, operation and filter maintenance are straightforward.



Class II, Type B2

Air In-flow 0% Recirculated vs. 100% Exhausted



Biosafety Cabinet

Class II Type A2/B2



ULPA/HEPA
Filters



Fluorescent light
for clear visibility



5/15 Amp
Power socket



UV Ultraviolet light
for bacteria disinfection



Telescopic Stand



Lockable caster wheels
for easy mobility



Liquid storage drum

Model No.	OLSC-114-B2-2	OLSC-114-B2-3	OLSC-114-B2-4	OLSC-114-B2-5	OLSC-114-B2-6
Inner dimension LxWxH (mm)	610x610x610	914x610x610	1220x610x610	1525x610x610	1828X610X610
Inner dimension LxWxH (FT)	2X2X2	3x2x2	4x2x2	5x2x2	6x2x2
Deign and classification	Class II type B2 :- 100% exhausted				
UV light (Philips)	1x30W				
Illumination	1x40W				
Virus Burnout unit	Virus Burnout Unit to protect environment from virus & bacteria				
Direction of flow	Vertical				
Average Airflow Velocity (OPTIONAL)	Inflow	0.30-0.50 m/s (105 fpm)			
	Down flow	0.35 m/s (70 fpm)	0.35 m/s (70 fpm)	0.35 m/s (70 fpm)	0.33 m/s (65 fpm)
Ducting collar	Fitted with exhaust and HEPA Filter for environmental protection				
Work access opening	8-10 inches				
Power supply	220-240VAC, 50Hz				

OPTIONAL FEATURES:-	
Validation	Calibration certificate will be on requirement only
Motorized front sash	front opening sash with counter balanced weight of motorized movement
Touch screen controller	Microprocessor based Touch screen display (3.5") system Complete real time operation like in flow/ down flow display Touch operation for UV/Blower/ White light etc.
Canopy	Canopy suitable for 2, 3 and 4 feet.



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